IN THE CLAIMS:

Please amend claims 1, 8, and 9 as follows. Please cancel claims 3, 4, 10, and 11 without prejudice or disclaimer.

1. (Currently Amended) A method, comprising:
receiving an instruction to adjust the output power of power amplifier;
powering on or off at least one branch of the power amplifier according to the
received instruction to enable a logarithmic change in output power of the amplifier; and
amplifying a signal according to the adjusted output power,
wherein the instruction specifies at least one of a percentage change in power and
a dB change in power.

- 2. (Original) The method of claim 1, further comprising transmitting the amplified signal.
- 3. (Canceled).
- 4. (Canceled).
- 5. (Original) The method of claim 1, wherein the powering on or off a branch of the power amplifier linearly in dB changes the output power of the amplifier.

- 6. (Original) The method of claim 1, wherein thermometer coded power control words are used to power on and off branches of the amplifier.
- 7. (Original) The method of claim 6, wherein the thermometer coded power control words ensure monotonic power control.
- 8. (Currently Amended) A system, comprising:
 means for receiving an instruction to adjust the output power of power amplifier;
 means for powering on or off at least one branch of the power amplifier according
 to the received instruction to enable a logarithmic change in output power; and
 means for amplifying a signal according to the adjusted output power,
 wherein the instruction specifies at least one of a percentage change in power and
 a dB change in power.
- (Currently Amended) A system comprising:
 a receiving engine capable of receiving an instruction to adjust the output power of power amplifier; and
- a determining engine, communicatively coupled to the receiving engine, capable of determining how many branches of a power amplifier to power on or off according to the received instruction to enable a logarithmic change in output power; and

a power amplifier engine, communicatively coupled to the determining engine and the power amplifier, capable of transmitting the determination to the power amplifier, wherein the instruction specifies at least one of a percentage change in power and a dB change in power.

- 10. (Canceled).
- 11. (Canceled).
- 12. (Original) The system of claim 9, wherein powering on or off a branch of the power amplifier linearly changes in dB the output power of the amplifier.
- 13. (Original) The system of claim 9, wherein the power amplifier engine uses thermometer coded power control words to power on and off branches of the amplifier.
- 14. (Original) The system of claim 13, wherein the thermometer coded power control words ensure monotonic power control.
- 15. (Original) A power amplifier, comprising:a plurality of branches for controlling transistors; and

a plurality of transistors, each transistor being communicatively coupled to a branch of the plurality of branches,

wherein the transistors are arranged in a logarithmic scale, thereby enabling a logarithmic change in output power with the powering on or off of a transistor.

- 16. (Original) The power amplifier of claim 15, wherein the powering on or off a branch of the power amplifier linearly in dB changes the output power of the amplifier.
- 17. (Original) A transmitter comprising a power amplifier according to claim 15.